

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P963966

Luminaire Tested: **NVN-SB3B-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16540.4 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

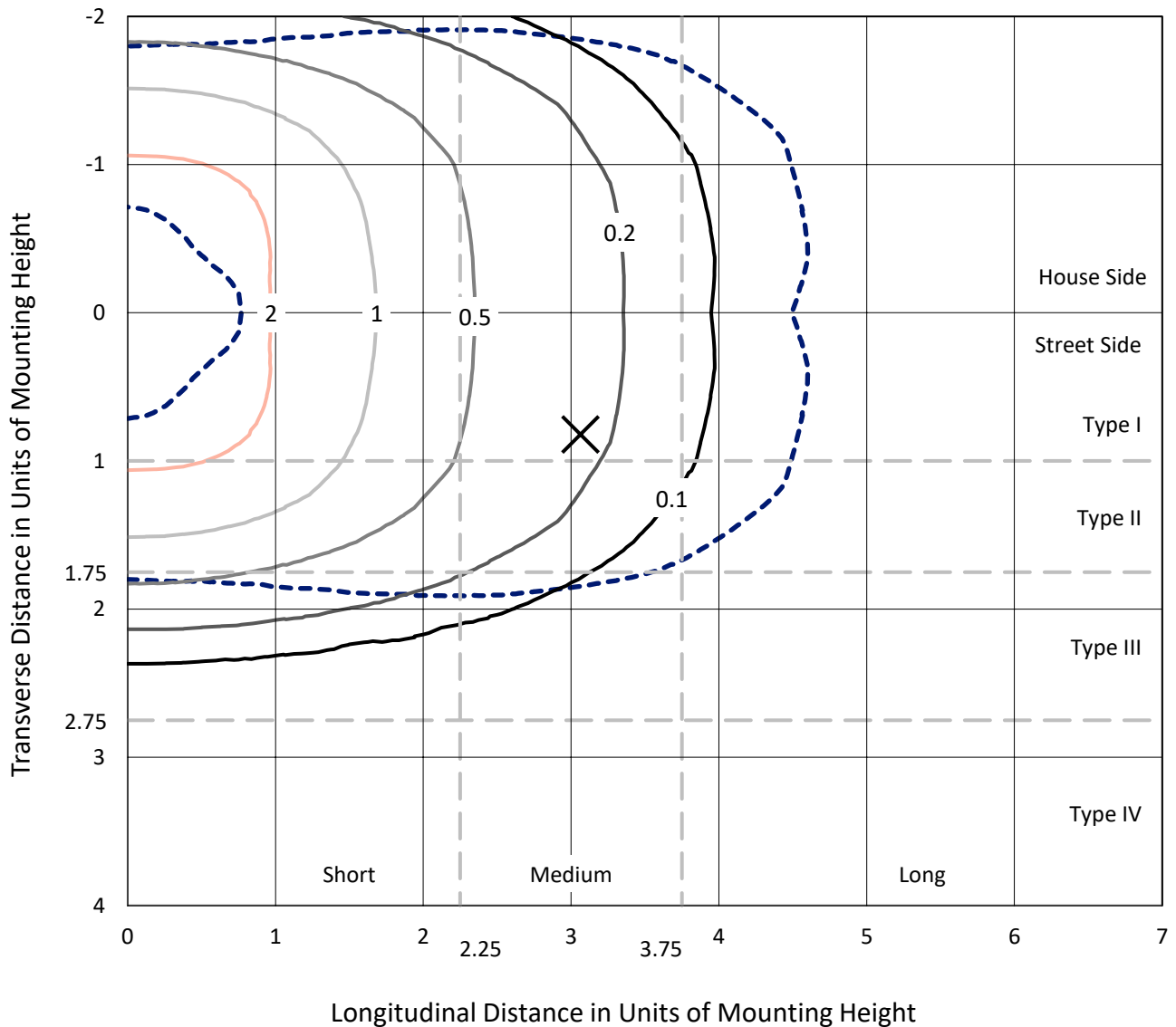
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

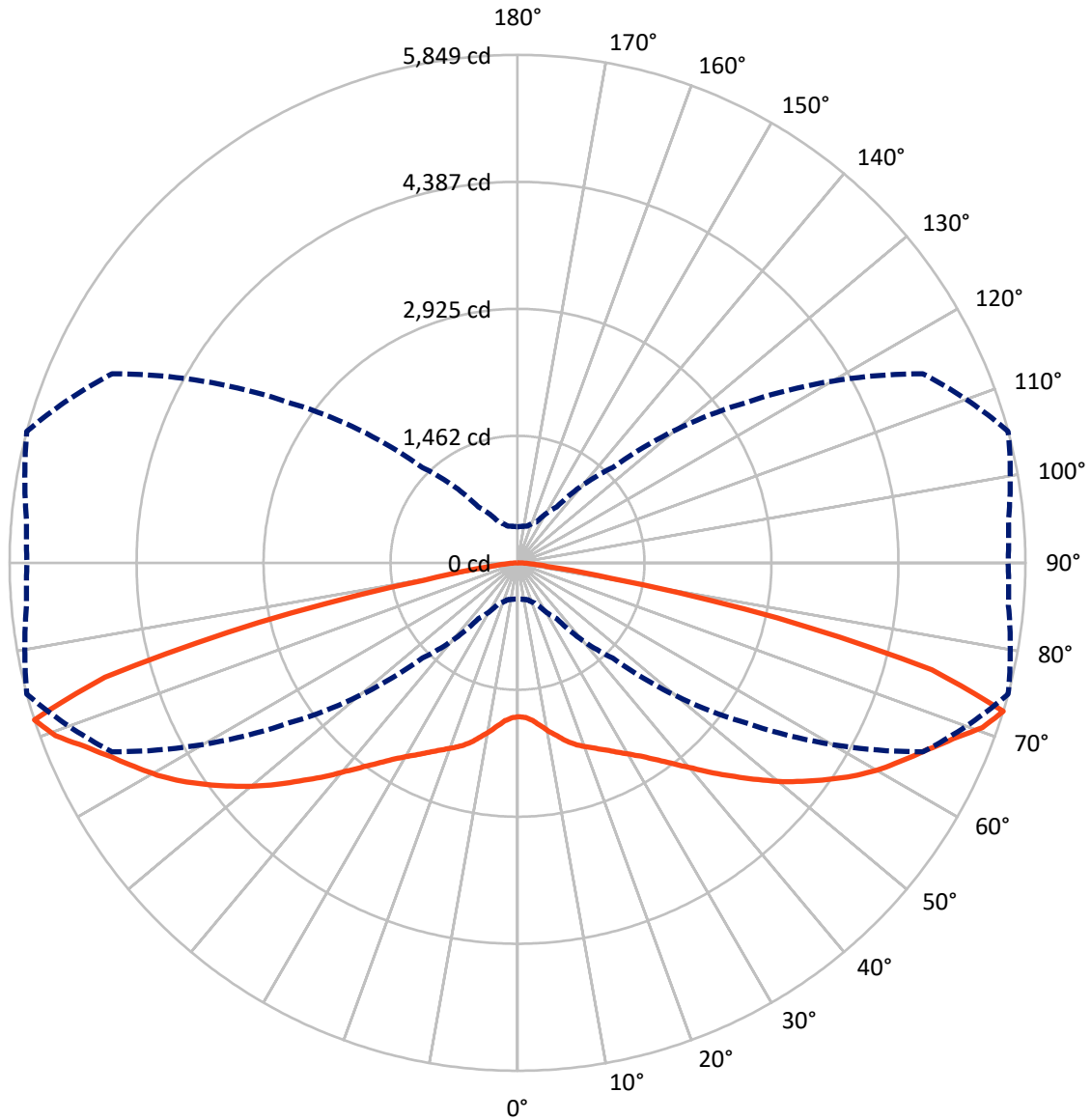
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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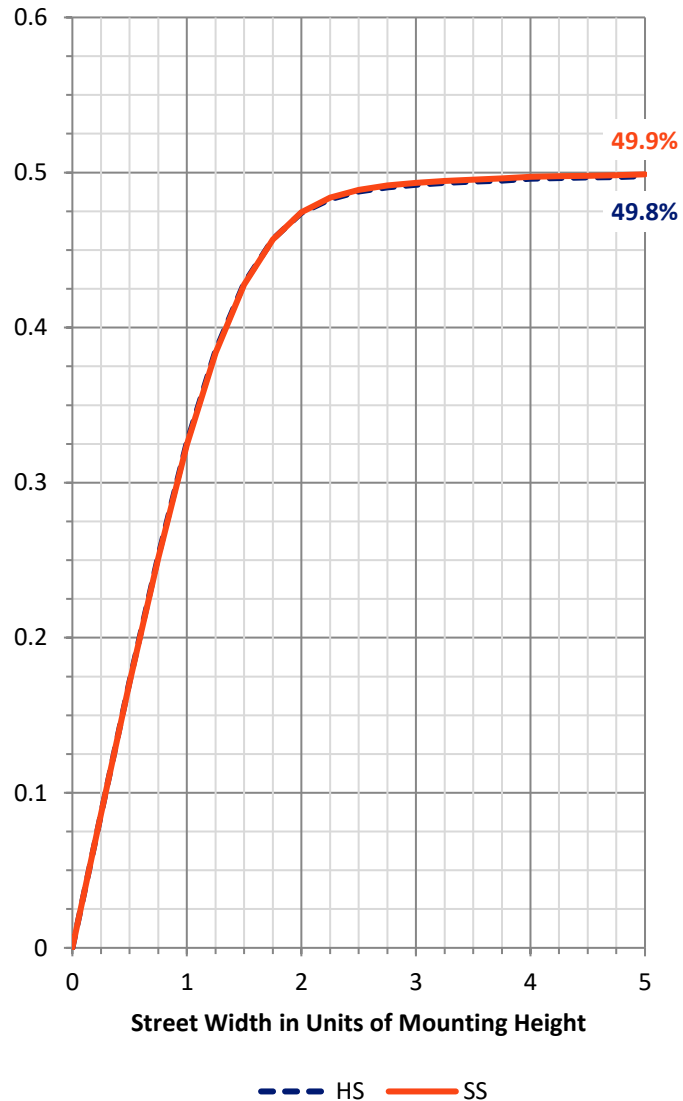
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8270.2 | 0.0 | 8270.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8270.2 | 0.0 | 8270.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16540.4 | 0.0 | 16540.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 173.6 | 1.0 |
| 10°-20° | 572.4 | 3.5 |
| 20°-30° | 1106.1 | 6.7 |
| 30°-40° | 1867.7 | 11.3 |
| 40°-50° | 2962.0 | 17.9 |
| 50°-60° | 3965.8 | 24.0 |
| 60°-70° | 3774.2 | 22.8 |
| 70°-80° | 1969.4 | 11.9 |
| 80°-90° | 149.1 | 0.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 16540.4 | 100.0 |
| 0°-180° | 16540.4 | 100.0 |

Coefficient of Utilization

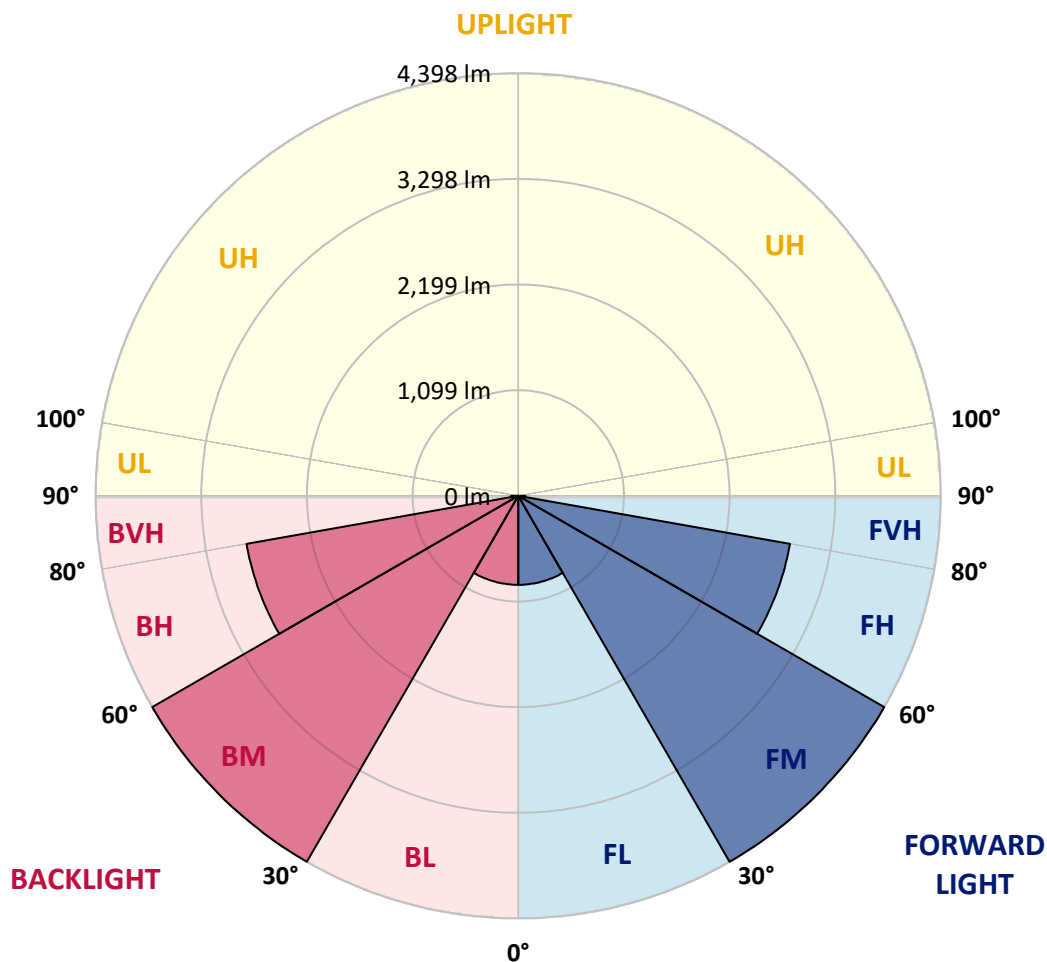


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 926.1 | 5.6 | | | |
| FM (30°-60°) | 4397.8 | 26.6 | | | |
| FH (60°-80°) | 2871.8 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 74.5 | 0.5 | | | G1/100 |
| BL (0°-30°) | 926.1 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 4397.8 | 26.6 | B3/5000 | | |
| BH (60°-80°) | 2871.8 | 17.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 74.5 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1771.8 | 1771.8 | 1771.8 | 1771.8 | 1771.8 | 1771.8 | 1771.8 | 1771.8 | 1771.8 | 1771.8 | 1771.8 |
| 2.5° | 1771.8 | 1770.1 | 1771.8 | 1773.5 | 1772.6 | 1772.6 | 1776.8 | 1779.4 | 1784.4 | 1783.6 | 1782.8 |
| 5° | 1759.9 | 1759.1 | 1765.9 | 1773.5 | 1779.4 | 1789.5 | 1802.2 | 1811.5 | 1823.3 | 1825.8 | 1825.8 |
| 7.5° | 1754.1 | 1751.5 | 1763.3 | 1776.8 | 1795.4 | 1820.7 | 1845.2 | 1870.6 | 1890.8 | 1897.6 | 1899.3 |
| 10° | 1758.3 | 1759.1 | 1775.2 | 1800.5 | 1830.0 | 1865.5 | 1900.1 | 1943.2 | 1971.9 | 1978.7 | 1985.4 |
| 12.5° | 1777.7 | 1776.0 | 1803.0 | 1843.6 | 1884.1 | 1928.8 | 1969.4 | 2016.7 | 2048.0 | 2063.9 | 2070.7 |
| 15° | 1813.1 | 1809.7 | 1847.8 | 1907.7 | 1966.9 | 2019.2 | 2052.2 | 2096.9 | 2133.2 | 2153.5 | 2161.1 |
| 17.5° | 1855.4 | 1857.1 | 1906.9 | 1984.6 | 2062.3 | 2121.4 | 2152.6 | 2175.5 | 2203.3 | 2221.1 | 2229.5 |
| 20° | 1929.7 | 1933.0 | 1988.8 | 2080.9 | 2169.5 | 2237.1 | 2262.5 | 2254.0 | 2261.6 | 2275.1 | 2285.2 |
| 22.5° | 2029.4 | 2031.0 | 2093.6 | 2193.2 | 2286.1 | 2360.4 | 2377.3 | 2342.6 | 2321.5 | 2330.8 | 2337.6 |
| 25° | 2145.0 | 2156.0 | 2218.5 | 2320.7 | 2416.1 | 2487.1 | 2494.6 | 2442.3 | 2390.0 | 2392.5 | 2396.8 |
| 27.5° | 2286.1 | 2296.2 | 2359.5 | 2460.9 | 2558.0 | 2619.7 | 2618.8 | 2548.8 | 2471.9 | 2452.4 | 2458.4 |
| 30° | 2438.9 | 2450.0 | 2514.9 | 2619.7 | 2710.0 | 2764.1 | 2752.2 | 2668.7 | 2558.8 | 2522.5 | 2526.7 |
| 32.5° | 2620.5 | 2627.3 | 2693.1 | 2797.8 | 2881.5 | 2924.5 | 2900.0 | 2797.0 | 2660.2 | 2618.8 | 2628.9 |
| 35° | 2840.1 | 2850.2 | 2899.2 | 2998.0 | 3071.5 | 3107.0 | 3065.6 | 2943.9 | 2790.3 | 2743.8 | 2750.6 |
| 37.5° | 3090.9 | 3084.1 | 3139.9 | 3227.7 | 3288.5 | 3310.4 | 3253.9 | 3109.4 | 2938.9 | 2884.0 | 2894.1 |
| 40° | 3352.7 | 3349.3 | 3410.1 | 3494.5 | 3527.5 | 3541.1 | 3457.4 | 3299.5 | 3110.4 | 3051.2 | 3070.6 |
| 42.5° | 3590.0 | 3587.5 | 3669.4 | 3763.1 | 3802.9 | 3787.6 | 3682.0 | 3501.3 | 3308.8 | 3241.3 | 3258.1 |
| 45° | 3780.0 | 3776.6 | 3877.2 | 4008.9 | 4086.6 | 4061.3 | 3919.4 | 3724.2 | 3509.8 | 3439.7 | 3455.7 |
| 47.5° | 3926.2 | 3927.8 | 4035.9 | 4198.9 | 4334.8 | 4344.2 | 4161.7 | 3951.5 | 3731.0 | 3651.7 | 3675.3 |
| 50° | 4031.6 | 4036.8 | 4152.5 | 4333.2 | 4518.9 | 4600.9 | 4409.1 | 4184.6 | 3959.9 | 3870.4 | 3897.4 |
| 52.5° | 4057.9 | 4067.1 | 4206.5 | 4418.5 | 4637.2 | 4793.4 | 4660.9 | 4408.3 | 4177.0 | 4091.6 | 4113.6 |
| 55° | 3918.5 | 3937.1 | 4113.6 | 4411.7 | 4709.8 | 4920.1 | 4882.1 | 4635.5 | 4395.6 | 4307.9 | 4332.4 |
| 57.5° | 3598.5 | 3624.6 | 3830.7 | 4220.0 | 4693.8 | 5007.1 | 5053.6 | 4853.4 | 4614.3 | 4529.9 | 4549.4 |
| 60° | 3150.0 | 3181.3 | 3378.9 | 3803.7 | 4467.5 | 5039.2 | 5174.3 | 5065.3 | 4815.3 | 4733.4 | 4751.2 |
| 62.5° | 2473.5 | 2514.1 | 2750.6 | 3248.8 | 3989.4 | 4889.7 | 5277.3 | 5257.0 | 4996.1 | 4894.0 | 4905.8 |
| 65° | 1586.8 | 1629.9 | 1879.0 | 2467.7 | 3351.9 | 4432.0 | 5309.4 | 5443.7 | 5187.0 | 5044.2 | 5062.0 |
| 67.5° | 956.8 | 976.2 | 1099.5 | 1495.6 | 2450.0 | 3742.0 | 5037.5 | 5650.6 | 5410.0 | 5232.5 | 5246.1 |
| 70° | 612.2 | 623.2 | 696.7 | 878.3 | 1385.0 | 2730.3 | 4363.5 | 5689.5 | 5680.1 | 5425.9 | 5424.3 |
| 72.5° | 415.5 | 418.9 | 438.3 | 520.2 | 783.7 | 1551.3 | 3218.4 | 5150.6 | 5849.1 | 5675.1 | 5648.1 |
| 75° | 304.0 | 322.6 | 353.8 | 368.2 | 445.1 | 775.2 | 1844.4 | 3618.8 | 4929.4 | 5005.4 | 4821.3 |
| 77.5° | 226.3 | 227.1 | 270.3 | 287.1 | 317.5 | 413.0 | 780.3 | 2020.1 | 3060.4 | 3213.4 | 2866.2 |
| 80° | 191.7 | 181.5 | 180.7 | 231.4 | 239.0 | 257.6 | 348.8 | 697.5 | 1096.1 | 664.6 | 502.5 |
| 82.5° | 159.6 | 148.6 | 134.3 | 180.7 | 163.0 | 158.0 | 151.2 | 283.7 | 348.8 | 171.5 | 146.1 |
| 85° | 111.5 | 106.4 | 101.4 | 118.2 | 92.9 | 79.3 | 72.7 | 132.6 | 147.0 | 72.7 | 64.2 |
| 87.5° | 48.2 | 49.8 | 50.6 | 52.4 | 38.8 | 27.9 | 27.9 | 37.2 | 37.2 | 28.7 | 21.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)